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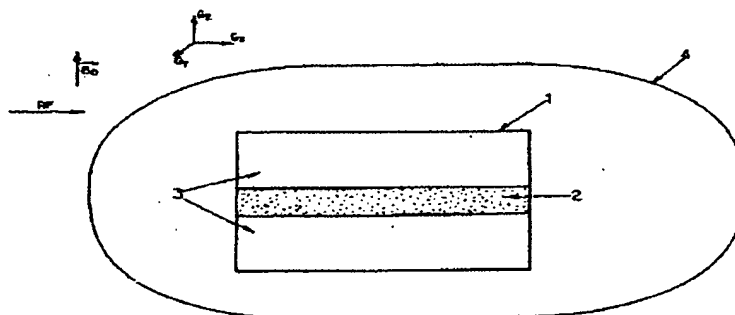
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As printed

(54) Title: METHOD FOR ACQUIRING ELECTROMAGNETIC SIGNALS AND CONTRAST PRODUCT THEREFOR

(54) Titre : PROCÉDE D'ACQUISITION DE SIGNAUX ELECTROMAGNETIQUES ET PRODUIT DE CONTRASTE POUR UNE TELLE ACQUISITION



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(57) Abstract: The invention concerns a system capable of generating a magnetic induction B_0 comprising gradients (G_x, G_y, G_z) in certain directions, transmitting radio frequency wave pulse sequences (RF) perpendicular to B_0 in a range of adjustable frequencies, and detecting electromagnetic signals received from a body part (4). The method consists in: injecting a contrast product in said body part, capable of being temporarily fixed in an observed zone (1), and comprising an element capable of causing chemical displacement of a resonance frequency of water hydrogen protons; exciting said body part, using a radio frequency wave pulse sequence in a range of frequencies adjusted on the basis of the magnetic induction B_0 and the chemical displacement for some of said waves; detecting the electromagnetic signals received in said body part, substantially corresponding to the magnetic resonance signals of the protons of the observed zone having undergone the chemical displacement.

(57) Abrégé: Un système peut générer une induction magnétique B_0 comprenant des gradients (G_x, G_y, G_z) dans certaines directions, émettre des séquences d'impulsions d'ondes de radiofréquence (RF) perpendiculaires à B_0 dans une gamme de fréquences réglables, et détecter des signaux électromagnétiques reçus depuis une portion

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